

- 2) mixing said first and second components at a temperature and for a time sufficient to enable said first component to bind to said second component; and
- 3) incubating this mixture with said microarray to enable the first nucleotide sequence to bind to said first component, wherein such binding results in the generation of a hybridization pattern on the microarray.

18. (Once Amended) A method for detection and assay on a microarray, said method comprising the steps of:

- 1) incubating a mixture including:
- i) a first component comprising a cDNA reagent obtained from mRNA of a target sample, said cDNA having a capture sequence; and
  - ii) a second component comprising a dendrimer having at least one first arm comprising a label and at least one second arm having a second nucleotide sequence complementary to said capture sequence,
- at a first temperature and for a time sufficient to induce said first component to bind to said second component to form a prehybridized cDNA-dendrimer complex;
- 2) contacting a microarray having thereon a plurality of features each comprising a particular first nucleotide sequence with said mixture; and
- 3) incubating said microarray and said prehybridized cDNA-dendrimer complex at a second temperature and for a time sufficient to induce said prehybridized cDNA-dendrimer complex to bind to said first nucleotide sequence, wherein such binding results in the generation of a hybridization pattern on said microarray.